

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

WHAT IS CLAIMED:

Claim 1 (Currently amended) A An isolated motilin receptor; protein substantially free from receptor-associated proteins comprising the amino acid sequence set forth in SEQ ID NO: 3.

Claim 2 (Currently amended) A An isolated motilin receptor; protein according to Claim 1 which is human comprising the amino acid sequence set forth in SEQ ID NO: 5.

Claim 3 (Currently amended) A An isolated motilin receptor protein comprising the amino acid sequence encoded by the coding region set forth in SEQ ID NO: 1 according to Claim 2 which is MTL-R1A having the amino acid sequence SEQ.ID.NO.:3.

Claim 4 (Currently amended) A An isolated motilin receptor protein comprising the amino acid sequence encoded by the nucleotide sequence set forth in according to Claim 3 having the nucleic acid sequence SEQ.ID.NO.:2 SEQ ID NO:2 or SEQ ID NO: 4.

Claim 5 (Canceled)

Claim 6 (Canceled)

Claim 7 (Withdrawn) A motilin receptor according to Claim 6 which is 75E7 having the amino acid sequence SEQ.ID.NO.:7.

Claim 8 (Currently amended) A method for determining whether a ligand is capable of binding to a human motilin receptor comprising:

(a) transfecting test cells with an expression vector encoding a motilin receptor protein comprising the amino acid sequence set forth in SEQ ID NO:3 or SEQ ID NO: 5;

- (b) exposing the test cells to the ligand;
- (c) measuring the amount of binding of the ligand to the motilin receptor;
- (d) comparing the amount of binding of the ligand to the motilin receptor in the test cells with the amount of binding of the ligand to control cells that have not been transfected with the motilin receptor where if the amount of binding of the ligand to the test cells is greater than the amount of binding of the ligand to the control cells, then the substance is capable of binding to motilin receptor.